

CLAIMS

1. A system for repairing, or resisting the formation of, a hernia at or near a stoma formed in an abdominal wall, wherein a portion of bowel extends through the stoma, said system comprising:
- an implantable prosthesis having a body portion and an opening therethrough that is adapted to receive the portion of the bowel, said body portion being effective for at least one of the repair, or resistance to formation, of an abdominal wall hernia at or near the stoma; and
- a cannula, separate from said implantable prosthesis, having an outer dimension that is sized to fit within the opening in said implantable prosthesis, and an inner dimension that is sized to pass the portion of bowel therethrough, said cannula being removable from said opening in said implantable prosthesis.
2. The system of claim 1 wherein said body portion includes at least one of a tissue infiltratable portion and a barrier portion.
3. The system of claim 2, wherein said body portion includes a first layer that is tissue infiltratable and a second layer that is a barrier.
4. The system of claim 3 wherein said first layer is a top surface, and said second layer is a bottom surface.
5. The system of claim 4 wherein said first layer is a porous fabric and said second layer is ePTFE.
6. The system of claim 1 wherein a portion of said implantable prosthesis is reinforced at or near said opening to resist enlargement of said opening, said reinforced portion having at least one property of strength, resistance to elongation and stiffness, that is superior to an adjacent aspect of said body portion.

7. The system of claim 6 wherein said implantable prosthesis includes a separate reinforcement member connected to a surface of said body portion at or near said opening.

5 8. The system of claim 7 wherein said reinforcement member is a ring.

9. The system of claim 7 wherein said reinforcement member extends at least partially around said opening.

10 10. The system of claim 7 wherein said body portion includes a first tissue infiltratable layer and a second barrier layer, and said implantable prosthesis is reinforced between said first and second layers.

11. The system of claim 7 wherein said body portion does not include a slit
15 extending between said opening and an edge of said implantable prosthesis.

12. The system of claim 1 further including instructions for externalizing the bowel section through said cannula, limiting the potential for contact and/or transmission of bacteria or other undesirables between the bowel section and said implantable
20 prosthesis.

13. The system of claim 1 including a kit provided with an implantable prosthesis and a cannula.

25 14. The system of claim 1, further comprising a trocar stylet having an outer dimension that is sized to fit within said cannula, and a first end adapted to puncture the anatomical wall.

15. The system of claim 1 further including at least one flap extending across
30 said opening.

16. The system of claim 15 wherein said at least one flap is at least one of said tissue infiltratable portion and said barrier portion.

17. The system of claim 16 wherein said at least one flap includes a plurality
5 of flaps that extend about said opening.

18. The system of claim 1 further including at least one sizer for determining the size of a trocar stylet for forming the stoma.

10 19. The system of claim 1 further including at least one shape influencing member.

20. A method of repairing, or reducing the incidence of formation of, a hernia at or near a stoma formed in an abdominal wall for externalizing a portion of bowel, the
15 method comprising the steps of:

providing an implantable prosthesis with an opening therethrough that is adapted to receive the bowel portion;

providing a shield having an outer dimension that is sized to fit within the opening of said implantable prosthesis and an inner dimension that is sized to pass the
20 bowel portion therethrough;

inserting the shield into and through the stoma;

positioning at least one of the shield and the implantable prosthesis, so that an end of the shield extends through the opening in the implantable prosthesis;

inserting the bowel portion into the shield; and

25 removing the shield.

21. The method of claim 20, wherein the shield is a cannula.

22. The method of claim 21 further comprising the steps of:

30 providing a trocar stylet having an outer dimension that is sized to fit within the cannula, and a first end adapted to puncture the abdominal wall to form the stoma; and

inserting said trocar stylet with the cannula into the abdominal wall.

23. The method of claim 21, further comprising the step of:
positioning the implantable prosthesis rearward of the end of the cannula that has
5 been passed through the stoma and into the abdominal cavity.

24. The method of claim 23, wherein the prosthesis is spaced from the cavity
entering end of the cannula by at least 1 cm.

10 25. The method of claim 21 wherein the cannula is extended through the
opening before said step of inserting said bowel portion into the cannula.

26. The method of claim 22, further comprising the step of:
sizing the bowel section with a sizing cylinder to determine an appropriately
15 sized trocar stylet for forming the stoma.

27. The method of claim 20 including at least one of a colostomy, ileostomy
and a urostomy.